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Two Metres, Dry Batteries (Victorian Division) Rooms' Tele-Ionospheric Predictions for the phone is FJ 6997. Amateur Bands

AMATEUR RADIO

Published by the Wireless Institute of Australia. Law Court Chambers, 191 Queen Street, Melbourne C.1

EDITORIAL



EMERGENCY OPERATIONS

Most people who use public communication systems such as telephone, telegraph or teleprinter facilities, do so almost without thought as to the acute problem which arises when such channels are rendered inoperative due to floods or bushfires.

It is not really possible to understand what an important link is provided between individuals and organisations by these means until such facilities fail and the whole community is completely cut off from contact with the outside world and is in need of medical assistance, food supplies, and other help.

Most of us know how effective Amateur Radio has been in providing such communications in time of community loss or danger, and it is fitting for us all to consider the really worth-while contributions effected by many Amateurs during the recent floods in the Eastern States.

In no better field, apart from war service, can the Amateur show his value to the community than in emergency service, and the congratulatory comments by the police authorities to those who assisted them so effectively by maintaining essential communications during this period proves beyond doubt that the Radio Amateur justified his existence in work of this important nature.

The Federal Executive also desires to express its appreciation of the many Amateurs who gave their time and effort to serve the community in this way and urges all those who read this Editorial to train and equip themselves to provide such facilities in the event of failure of normal communication facilities. however caused.

Elsewhere in this issue you will find the detailed stories of this work; we hope you will read of the effects of all those who took part and make up your minds to prepare and be in it when the next opportunity occurs.

FEDERAL EXECUTIVE

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Amateur Emergency Work Dur-ing Murrumbidgee River Floods

Fifty Megacycles and Above ... Trade Review - The -"Commander" Double Conversion

Receiver

Federal, QSL, and Divisional Notes

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Utilising the FS6 Tuning Unit in a V.F.O.

BY E. MANIFOLD,* VK3EM

Tuning Units from FS6 Transmitters have been obtainable from Disposal sources for a few shillings. Here is a simple method of using one of these units as a basis for a v.f.o.

V.f.o. units seem to be the order of the day; largely due to the congestion on our lower frequency channels. The ability to change frequency at will is an obvious necessity.

While nothing new or original is claimed for this unit, it does show how a useful unit can be made from parts ex-Disposals which, believe it or not, had to do a job, sometimes more vigorous and exacting than in the average Amateur Shack.

Having procured a frequency control unit ex-PSS sometime ago and feeling the pinch of QRM when operating on the 7 Mc. band, due thought and much perusing of v.f.o. circuits was done. Having helped with the calibration of a similar unit and seen how it operated, the writer was satisfied it would do the

The unit consists of a 6F6G e.c.o. and 807 as doubler stage, not quite at Class "A" conditions, with the voltage regulation controlled by two VR159/30 tubes in series, which provides 300 volts + and 150 volts + for plate and screen of hoth tubes.

The original FS6 oscillator covered a range of 42 to 6.8 Mc. approximately and had two separate windings on the coil former. These are discarded and the whole of the slotted area of the coil former re-wound with 19 B. & S. or 20 S.W.G. to 27 turns with a tap for the cathode of the 676G at the third

If the tap is brought up through a hole in the former, the tap can be adjusted on the coil to suit the best operating point; too low a tapping on the coil will not allow the oscillator to be keyed, too high a tapping on the coil will allow the oscillator to continue oscillating weakly with the key up and with poor keying characteristic chirps, set:

Re-winding the oscillator coil and loading it with high "C" puts the fundamental frequency of the socillator on the 1.89 K. to 1,990 K. tange and permits operation in the 11 metre band and all our harmonically related bands to 30 Mc, with the addition of the necessary multipliers.

Choke coupling is used between the 67G oscillator and the 80T doubler stage and since this stage provides sufficient isolation from succeding stages, the amount of frequency variation from them is small.

The output coil of the 807 stage is slug tuned and has very little capacity other than the tube capacity across the coil. This coil is tuned broadly to the 3,390 Kc. to 3,800 Kc. band, peaking of the slug to 3,500 Kc. allows sufficient drive over the whole range to excite an



Rear view of V.F.O.—The 6F8G occillator is located on the left hand side of the chassis, with the 807 at the rear right. Located in front of the 807 is the slug tuned output coil. The F86 tuning unit is mounted on the front panel, with a section of the front panel cut out to receive it. 807 as a frequency multiplier. It is wound with 129 turns of 34 S.W.G. close wound on a \$\foatstyle{P}' diameter former. A link coil is wound over the earth end of the plate coil consisting of six turns of Nylex flexible 5/.009 jumper wire.

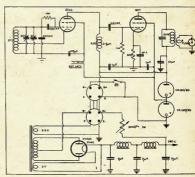
The key is connected in series with the oscillator screen ht. supply and is 150 volts + above chassis, so that due care must be exercised in handling the key and earthed points, alternatively a relay could be incorporated to isolate this voltage; the vf.o. was primarily intended for phone operation.

The stand-by or off/on switch is in the negative ht lead and was intended to break the centre tapped lead of the oscillator-exciter-amplifier power supply, or use as a relay control lead by connecting ht. minus to one side of the ac. filament supply and using the supplier of the control, through relays, all ht. supplier.

TUNING ADJUSTMENTS

The first requirement is to see that the VR tubes are operating. Adjust the voltage dropping resistor in the power supply (from maximum resistance) until both VR tubes ignite, as much resistance should be left in series as possible consistent with reliable operation of the VR tubes.

Check for oscillation by listening on receiver and swinging the main tuning condenser from maximum to minimum (Continued on Figs 9)



Schematic Diagram of V.F.O. and suggested Power Supply.

* 267 Jasper Road, McKinnon, Victoria.

V.H.F. Wave Transmission

BY J. BAIL. * VK3ABA

Normally, radio waves, like light, travel in straight lines. Fortunately, there are various conditions which entered the straight lines are various conditions which entered the straight lines are straight lines and the straight lines are seen that the straight lines are seen that the straight lines are straight lines. The straight lines are straight lin

IONOSPHERIC In the range 3 to 30 Me. ovordewide REFRACTION 30 Me. ovordewide recombere, and under the right conditions complere, and under the right conditions of the recombered recombered and the recombered r

The shorter waves in the range are reflected by the highest layer and skip distances are consequently longer. At any one time and zone on the globe, there is a maximum usable frequency (mu.f.) which varies with the changes in ionisation. From published reports it has been rare for communication by means of F layer transmission to be made within the 50 Mc. band.

However, the majority of long distance contacts established on 50 Mc. is made possible by an ionospheric condition known as Sporadic E or simply E. The term gives some suggestion of being largely unpredictable, and extending the contact of the co

normal E layer.

The lower frequencies are also affected, as the presence of short skip conditions there indicates. For 30 Mc. work conditions there indicates for 50 Mc. work conditions the property of the indications on the lower frequencies. In this connection, M. E. Collett, in his article, "What, No Beacons?" printed in "Annateur Radio," March, 1495, describes the use of the Mc. The reader might also be referred

The subject is a wide, one and will be dealt with in a general way here as applicable to Amateur work. The object is to discuss the types of wave propagation with particular reference to the 50 and 14 Mc. bands, and it is hoped also to clear up some misumderstandings which appear to exist judging by remarks heard from many Amateurs.

to the same writer's article, "Sporadic E Observations" in "Amateur Radio," November, 1949.

Occurrence of E. has been confined mainly to the summer period, with a mid-winter peak. Attempts have been mid-winter peak. Attempts have been sumport activity as on the sower frequencies, or certain weather conditions, etc. Despite careful observation, no extended to the conditions of the control of the conditions of the control of t

E. occurs as intensely ionised patches with lateral movement. The result is that on 50 Mc. fading is often quite violent, communication conditions occur over random or large areas, depending on the position and degree of ionisation, on the position and degree of ionisation, or the position of the position of the property of the prop

It will be noted that geometric conditions provided by the earth's radius and height of the reflecting layer, determine largely the skip distance concerned with ionospheric transmission.

cerned, with ionospheric transmission. Some further phenomena are also of Some further phenomena are also of the communication over moderately long distances has been made with strongest signals obtained when directive antiential control of the direction of the other station of the direction of the southern hemistance. Little is known of this phenomenon on Amateur Bands in the southern hemistance of the confoundation with aurora pusheral in conjunction with aurora pusheral in conjunction with aurora

Another effect, said to be due to meteor trail ionisation, produces short bursts of high signal strength when listening to a weak carrier.

A further effect, familiar to 28 Mc. operators, referred to as "reflected skip" or "scatter back." enables statiction which are normally in the skip region, which are normally in the skip region, are oriented in the same general compass direction, usually towards the prevailing overseas countries being received at the time. When, however, the other, contact is lost or becomes difficult.

On v.h.f., in the absence of E, or other ionisation phenomena, the properties of the lower atmosphere must be relied upon for some degree of distance in communication. This will be dealt with

TROPOSPHERIC This refers to transmission of radio waves through the lower atmosphere and is subject to meteorological conditions.

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The physical horizon is a limiting factor in long distance communication on wh.I. on the properties of the properties of the properties and the properties of the properties o

The fluctuation of signals due to an aircraft flying in the vicinity of stations is well known. The above effects are the fluctuation of the collection of t

In addition to the bending due to refraction referred to, an extension to the range is provided by diffraction, which may be compared to the diffraction or dispersion of light around a corner, and decreases in effect with increase of frequency. Thus frequent communication is possible over moder-

ate distances.

It will be appreciated that antenna height, characteristics of the location and adjacent geographical features have a bearing on the range of the extended horizon. Changes in the temperature and humidity of the atmosphere cause a change in the refractive index with consequent variations in the extended

horizon and diffraction area.

At times abnormal changes in the temperature and humidity gradients occur and cause refraction to increase considerably. During the recent war

the use of wh.f. equipment for communication and radar revealed many instances of so-called anomalous propagation due to super-refriction. Taking advantage of the situation, the Badio Research Board of the CS.IR, in cooperation with the R.A.A.F., conducted observations on the occurrence of radar echoes at coastal stations around Australia with 200 Me. equipment.

This took place over an approximate period of 18 months, commencing in 1944, and the report on this research project is given in the Australian Journal of Scientific Research (Physical Sciences), for December, 1948. The report is named "Super-refraction in the mountaines are of interestia," and some couplings are of interestia.

quotations are or interest "The normal odownward bending of natio waves in the lower atmosphere increases and the lower atmosphere increases and entends to enhance propagation to great distances whenever the lapse of temperature with height is below normal or attem with height is below normal or atmosphere and/or the decrease of humidity with height is greater than normal. Humidity effects are generally considered to be the more important in pro-

From the evidence covering the period of observation, "it appears that super-refraction in southern Australia occurs most frequently in the rear halves of the migratory anticyclones, ceasing at a given place as the polar front, which

precedes the next anticyclonic cell,

"It was demonstrated, for exhmple, that super-refraction in summer often extends over a large area of southern Australia simultaneously. The effect of super-refraction are most striking in north-west Australia, where echoes from Timor (490 miles away) are received fairly frequently in some seasons and echoes at somewhat smaller ranges recur with great regularity at almost the

same time day after day." In this connection some variation from year to year might be anticipated due to seasonal meteorological differences. Many long distance contacts have been established on 50 and 144 Me. in

the northern hemisphere as a result of similar conditions in the troposhere there. Operators of v.h.f. ground communication equipment connected with airways services have, at times, observed abnormal reception of distant signals. The increase in numbers of Australian

The increase in numbers of Australian Amateurs on v.h.f. has provided an opportunity of taking advantage of super-refraction conditions here: For example, Victoria-Tasmania have recently been made on 50 and 144 Mc. from home stations, the first 144 Mc. contact being established on the evening of the 27th March this year.

A copy of the weather map for the morning of this date is shown and it will be seen that an eastward moving "high" or anticyclone was across Bass Strait at the time. Readers of "QST" may remember the article "Paniless Prediction of Two Metre Band Openings" in the October, 1949, issue which discusses similar conditions applicable to the American continent.

It would appear that "ducting" is associated with super-refraction conditions. The radio wave advances somewhat as though it were in a wave guide formed by two diffuse boundaries close to the earth's surface. Some frequency to the carthy surface. Some frequency pected, depending on the dimensions of the meteorological wave guide.

It is conceivable that at times a combination of different propagation conditions occurring simultaneously enables long distance communication to be made. Some particular cases on analysis have shown this to be so.

From what is known, it is obvious that, on 144 Mc, the form of wave transmission to be expected is of the tropospheric type. Transmission at this frequency via E, or F layer reflection would be highly improbable.

There is much to be learnt about w.h.f. and u.h.f. wave propagation. If you have not yet been active on these Amateur Bands, here is an opportunity to take part in an interesting phase of Amateur country stations on these frequencies would provide a more even distribution of edivity. If you take the initiative it will provide you with a new interest, will provide you with a new interest, your lower frequency activities.

WEATHER BUREAU CHART OF 27th MARCH, 1950



An anticyclone with its highest pressures over eastern Victoria controls the weather. With clear skies during the night, rapid cooling occurred, and caused many heavy dews, scattered mists and fogs and isolated high and middle level cloud, with weather becoming unsettled later in the week.

IMPORTANT

Would all Magazine Contributors please note that all contributions must be addressed to "Law Court Chambers," 191 Queen St., Melbourne, and NOT to the old box number.

Contributions, particularly notes, if addressed to the box number may not be received in sufficient time to be included in Magazine for the month for which they are intended.

Two Metres, Dry Batteries

BY A. K. HEAD,* VK3AKZ

This two metre transmitter-receiver was made for use as a ground station for ground to glider communication on 131.8 Mc. It also covers the 144 Mc. Amateur Band and has been used very successfully on this band. By using dry battery tubes, the awkwardness of transporting accumulators for portable operation is overcome, but, of course, the cost of operation is rather higher.

The main circuit is a conventional transmitter-receiver using a 986 battery accur as a super regen detector, another 988 as a modulated oscillator and a 108GT triode-pentode as a common control of the supering a continuous tone for more continuous tone for lining up the sets in the gliders.

Separate volume controls are used for receive and transmit and \$50,000 chm resistors minimise interaction between them. These feed into the 126°T triode section which is followed by the pentiode section which is followed by the pentiode section which is followed by the pentiode section which also serves as a modulation choke on transmit, or as a choke when earphones are used in jack 32. Blas for the pentiode used in jack 32. Blas for the pentiode model of the pention of the pention

TRANSMITTER The tuned circuit of the 988 modulated oscillator consists of the coil 1.2 which has 2 turns of #7 diameter and a 7.5 pF. zero temperature coefficient ceramic trimmer in parallel with the 10 pF. tuning condenser. On 144 Mc. the ceramic trimmer is at maximum capacity and the 10 pF. at nearly minimum capacity, and the 10 pF. at nearly minimum capacity, giving low drift.

Heising modulation is used with T2 serving as modulation choke. For phone operation a carbon microphone is used in Jack J1 using the 1.4 volt filament voltage for operation. The operation of the neon tube circuit is explained later.

T-R SWITCH This is a two water, two positions bravies circuit switch which has been modified to give a third position (off) in which the moving contact is not connected through. Eleven of the circuits are used, four are used as the antenna change over, two on each wafer which are back to back, being paralleled, and each of these pairs switching one wire of the

Asst. Technical Editor, 12 Peverill St., Balwyn, E.8, Vic. 300 ohm twin lead used for feeding a folded dipole. The spacing of the waters is about equal to the width of 300 ohm line and tests by VK3NW show that the losses of this type of switching are very low, even at 580 Mc.

With the switch in the "Off" position, both the A plus and B plus lends are broken. By the filament switching, the IDBGT filament is on for both receive or transmit, but the filament of the 958 not in use is switched off. This saves 100 Ma. of filament current and since the tubes are instant heating, no time is lost waiting for the filaments to warm on changing from receive to transmit.

NEON TUBE The phone-mc.w. switch is a three circuit, two position switch. In the phone position the jack JI is the microphone jack and the neon tube is connected through a 3 megohm resistor to B plus. The neon is visable through a hole in the front panel and through a hole in the front panel and "or indication. The current crisin is only about 30 micro-amps."

In the m.c.w. position the neon is connected to B plus through a 1 meg-ohm variable resistance and a 0.001 uE. The alternate charging and clicknying of the condenser generates an suiton, the frequency of which can be resistor. The jack JI is switched into the condenser generate and the condenser generate and suiton, the frequency of which can be resistor. The jack JI is switched into the condense of the condens

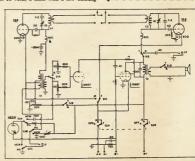
Since the voltage available is limited to 90 volts, a neon with a low striking voltage is necessary. The one used was from a BC453 and strikes at about 75 volts. The negative side of the neon is connected to B minus, rather than earth, so as to avoid the voltage drop across the back bias resistor.

In use on 144 Mc. the set has worked DX up to 30 miles. The receiver can regularly hear more distant stations, but a set of the set

CORRESPONDENCE Several letters have been re-

ceived on the subject of the Editorial for April.

Federal Executive desire to extract information from these letters and letters received have been forwarded to them. Several of the most interesting will be published at a later date.—Editor.



Abstracts, Overseas Magazines

"WIRELESS WORLD," JANUARY, 1950 P. 12: "Amateur Exhibition."—Review of the R.S.G.B. annual show with notes of what was on

how.

WIRELESS WORLD, FEBRUARY, 1950
P. 50; "Test Report of 'Denoo' DCRIS Comnealoutions Roosiver,"—Test report on a receiver
feelgood mainly for Amateor use. Rotary cell
stret, I.d Mc. i.f., crystal filter, calibrated bandpread for Amateor bands. Circuit diagram of

some parts gives.

"CQ." JANUARY, 1950

P. 11: "Small Rig, 8ig Signal;" R. W. Clark,
WORYD.—6V6 deubler string driving push pull WORVID.—6.vo occupier aring criving.
P. 16; "Designing the QSL;" O. L. Wooller,
WOSSIG.—Points on producing attractive QSL cards.
P. 16; "The Zig-Zag Array;" J. W. Stelder,
WOESY.—A compact attreem element vertically
polarised beam with a gain of over \$1 db. P. 20: "Licking the Regulation Problems" J. Sangier, WOESQ.—Uses vacuum tubes as keyed bleeders to stop voltage rise in c.w. rigs.
P. 22: "ZCSPM Licks TVI;" P. Miller, ZCSPM/

P. 17: "Best the Renhsor;" E. L. Bod, WEEVY.
P. 17: "Build an Audio Callister;" C. Welch,
WSMEX.—Three valve best frequency oscilator
100 to 15.000 cycles. The passay osique from
P. 50: "The Early Way;" B. 30.

Building a new Way;" B. 30. to 35,000 cycles.

30: "The Exty Way;" R. W. Ehrlich, W2NJR.
sliding a grid dip oscillator from a commercial pilon waventier.

31: "Selenium Rectifiers;" R. B. Richmond,

WIRRA.
P. 34: "Stay Out of Jall;" F. L. McGraw, Wests.
—Conversion of BC454 as a monitor.

—Conversion or above as a monner.
F. 16: "Shack and Workshop,"—(i) Tuning your single twin loops. (ii) Antenna switching on the 75A, (iii) Keying monitor, (iv) Modulation indicator and field strength meter. (v) Mobile mike like hath cure. (vi) Begulated oscillator filament supply. (vii) Backwave getting you?

IONOSPHERIC PREDICTIONS FOR THE AMATEUR BANDS

MAY, 1950

Nine of the charts, prefixed by the letter "C" for Canberra, refer to forecasts for the South-Eastern Australian States. The remainder, prefixed by the letter "P" for Perth, are for Western Australia The Canberra charts refer to the

following world zones:-Region Terminal London

Western Europe Mediterranean Cairo 3 N.-West America 3a N.-East America San Francisco

based on Canberra.

New York Barbados Central America South Africa Johannesburg Far East Manila The Perth charts are similar to those

OUIZ

The Prediction Service welcomes comments on the accuracy of its predictions. In particular, answers to the following questions on the Canberra-San Francisco circuit would be useful:-

Were good conditions experienced on 7 Mc. for the period 0600 to 1500 hours G.M.T.?

2. Was the 14 Mc. band workable from noon to 1800 hours G.M.T.? 3. Was the 28 Mc. band workable for several hours around midnight

Answers to the Quiz should be sent to the W.I.A. and should, if possible, refer to consistent results obtained on the majority of days in the months.

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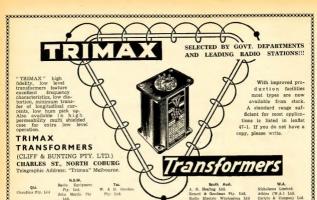
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Amateur Radio, May, 1950



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Page 8 Amateur Radio, May, 1950

Amateur Emergency Work During Murrumbidgee River Floods

Amateur Radio again demonstrated its value to provide communication at short notice when normal services failed at Wagga and surrounding districts during the floods of late March.

The activity could be divided into two sections: emergency communication and a relaying service for the local BC station

Thursday, 23rd March, saw the river at Wagga almost at flood level, and VK2BW, Alf Moye, reported to the local Police that he had fixed mobile equipment ready for use if other services failed.

Already Jack McPhee (2nd op. to VK2BW and VK2AID), Fred Depeler (VK2ANT) and Eric Moore (ex-VK3BM) and others had installed a D.C.A. AT14 on the top floor of the local police station and using a frequency of \$50 Kc. (D.C.A.) were contacting the Army Depot at Bandianna and mobile vehicles around the area.

At 4 a.m. on the 28th, VK2EW was called out by the Police to assist and after tuning the main rig to 5330 Kc, acted as a runner, taking messages by car to those concerned, also collecting operators including Bill Jenner, 2nd op. to VK2AID, to man the Army "bilizes" and "ducks"

The operation continued for most of the day, rescueing marooned people and distributing food, etc.

Later in the morning, VK2BW was requested by the Superinsendent of Police to try and arrange his station, to relay the EQ programme to the transland field. The transmitter was tuned to 713 Kc, and a line provided from the fed into the modulater (in.b.f.m.). In the meantime, Geoff Hodgeon (VK Zdoren out to the transmitting station by motor both and the provided stationary of the transmitting station by motor both and was supposed to arrive by midday. Broadcast material 2BW and at 1 pm. BC station 3WG came on the air, the transmistion was not one of the stationary of the transmitting station on the six the transmiston was not coping with the n.b.f.m. very well. The system was then changed to pittle modern to the stationary was heavy. At 1215 hours the but interference from Amateur Stationary was heavy. At 1215 hours the transmission arrived at the transmission from VK2BW (Gop., Don Harberecht (sitting for the next A O.C.P.), managed to receive the transmissions from VK2BW (Don, however, who had been copymetry or conserved the transmissions site. Don, however, who had been copymetre command receiver on the job.

The trip to the BC station by VE2ASH and his companion, Les Lidden was in itself an adventure—five miles of flood waters had to be negotiated. Most of the

journey was made by pulling themselves along wire fences and finally on foot. At one period they lathed themselves to a telegraph pole to stop being carried to a telegraph pole to stop being carried to the period to the pole of the pole of the period characteristics of the command receiver accounted for most of the interference, despite good work by VKSKV and others in keeping the channel clear.

The relaying continued throughout the next day until 1715 hours, when an alternate route was used to restore landline facilities. Telephone communication out of the town at the time was in bad shape and the BC station did much to relieve the uneasiness of the folks in the area.

At the conclusion of the work for the BC station, the Superintendent of Police requested that a radio link be established with the next town likely to be affected, namely Narrandera. Accordingly the AT14 was dismantled from the Police Station and transferred by "duck" to Narrandera. VK2BW's main transmitter took its place and a direct telephone line installed from the Police Station to VK2BW's operating desk. Traffic handled included food orders and messages to the Army Depot at Ban-dianna, the North Wagga Police Station where VK2AID's modulator was in use, the Aeradio Station at Alstonville and radio controlled "blitzes" and "ducks" operating in the area, and later at about midday with the Narrandera Police Station. The link was maintained all Sunday night, Monday till midnight, and finally closed at 1900 hours on Fri-day. VK2BW was manned by an en-thusiastic high school boy. Brian thusiastic high school boy, Brian Mitchell, during the day and by Rams and D.C.A. operators at night. VK2ANT did the midnight to dawn watch on Sunday

Mal Robinson (VK2HT), who was marooned at Waggs, did soone good work helping the evacuation and was requested by the Police to take VK2HW's Type death of the property of 500 Ke. was a dopted all round. Mal was taken by air to Narrandera, by "duck" to Leedon, and arrived at Darl-"duck" to Leedon, and arrived at Darl-"duck" to Leedon, and arrived at Darl-"Communication was mainly made with Narrandera and with the "ducks" which had arrived in the area.

Signals between the main station's AT14 at Narrandera, AR8/AT5 at Bandianna, and TA12 at VK2BW, varied from S7 to S9; while the "ducks" using Type 19s were from zero to S5.

Receivers in use were an AR7 at VK2BW and BC312 at Narrandera which was loaned by VK2ANT. The Type 3 Mk. II. was again in use up the river as a warning station as the river was again rising.

Many Amateurs co-operated, some in the course of their official duties. They included VKs 2ANT, 2AID, 2ASH, 2BW, 2HT, ex-3BM, ex-2MX, ex-3KJ, 2RB and Allan Williams and Maurie Harrison whose call signs are not known.

As a finale to the 2WG episode, VK 2BW and his XYL were presented with an inscribed entree dish at a ceremony at the studios. Due credit was given to the Radio Ham for the work performed during the crisis.

The local Amateurs and radio enthusiasts very sincerely thank the Polce, the Telephone Branch, and the D.C.A. for their wonderful co-operation and encouragement given them during the cratical period.

Thus is written another episode in the history of the Australian Amateur, but it is not really complete, because at this moment out in Western N.S.W. other Amateurs are continuing the emergency work. It is hoped to have the full story of their endeavours in the assistance of the public available for next issue.

UTILISING FS6 TUNING UNIT AS A V.F.O.

capacity. If no signals are heard, couple the receiver fairly close to the vf.o., as being shielded, very little signal is heard on 7 Mc. and higher, however assuming a check is being made on 3.5 to 3.8 Mc., some second harmonic signal should be evident. If not, check for oscillation by inserting a grid meter in series with the oscillator grid leak and adjust the cathode tap for oscillation.

Once oscillation is established, adjustment of the tuning slug in the oscillator tuning coll will bring the tuning range into elignment with about 20 Kc. to spare at each side of the 3,390 Kc. to 3,600 Kc. range.

The small trimmer condenser which

is part of the FS6 tuning unit is left at maximum capacity, though it could be removed if desired, having very little effect, of course, with approximately 600 pF. across the tuned circuit.

Having tuned the oscillator to the desired frequency coverage, the doubler output coil can be adjusted for maximum output at approximately 3.5 to 3.6 Mc.

This was done by connecting a 8-8 v. 3 watt globe across the link coil and adjusting the sing tuning to peak the output of the 807 to approximately 3.5 Mec. 401 brilliance, dropping off at each side to shout half brilliance, drocening an output of approximately 1½ watts at the extreme high and low frequency ends of the range with almost 3 watts at 3.5 Mec.

The frequency of the unit was calibrated in 10 Kc. steps and with the arrangement of the FS8 unit, allowed quite good re-set points throughout the 3.5-3.6 Mc. range, which is the most used part.

All by-pass condensers, resistors, and miscellaneous other parts, including the aluminium for the chassis, are ex-Disposals.

FIFTY MEGACYCLES AND ABOVE

Compiled by J. K. RIDGWAY, VK3CR,

FIRST INTERSTATE CONTACTS ON 144 Mc. The most important v.h.f. news for many months tooms the first interstate contacts in the history

of 144 Mc. (* AUSTRIII.)

On the evening of 27th March, VKJAKE and VKTPF were successful in being the first stations to achieve this honour and to establish an Australian record for 144 Mc. of 270 miles. In the following letter VKTPF balls the story of the doings on that oventful evening.

SPANNING BASS STRAIT OR 144 Me.

"The morning of Monday, 27th Marris, was a or, but slightly cold, but little did we know what was to Jappen before the large are cold to be the large at lar These mode office yet 1-19 per toroids in vice with the control of the control of

down the boulder to TMC. TPP also bend MRV come and the bound MRV co

stage. Acrial, four element parasitic beam. His location overlooks the river and was the best of the Launcyston Hams shie to put a signal on the sir "The location of TEB was about the best it could be possible to obtain marky, and the proof was in the signals he could bear using a 626 con-verter into two stages LL, deleteor and make-shift

areful. "The seather was quite varies and elocofiles and what may be of some lemportation was the shaces equite a heavy frog. On the money for the shades equite a heavy frog. On the morning of Needsta at the local aerobissons, a temperature leseration of very local learning." It is a superstantial to the headstand of the headst

the bands.

"The final results are most encouraging, especially as all goar has been adjusted with the other slation to further than about twe miles away and we are now escrebilly following the weather and other hands, and hoping for a further opening in the not too distant future."

"OPERATION APPLE ISLE"

Sunday, field Agril, 1950, was a bright sema-day when WESER and party, consisting of VESACI, VESAMP, VESAUI and VESAUE made their way to a location approximately 450 feet above sea level at Cape Shanel. Approximately three months of phanning had gone linto the arrengements for this field day and a goodly survay of gore was in

ent consisted of a 10 watt transmitte The equipment consisted of a 10 wait transmitter for 65 and 144 Me. a 10 wait transmitter for 40 metres. BC348 receiver, 50 Me convertee and a revisal controlled 144 Me, converter feeding tind the 50 Me, converter. The power supply was a 230 want, 140 wolf 60 gride period drives alternator, the loan of which was kindly arranged by

The same of which was lightly arranged by the strictly and the Samet at 650 hours, the right and the Samet at 650 hours, the right of and 144 ffc, fore relevant homes were accepted to the strictly and the stric

reports were not as good as the carlier co with 3RR. 3RR also worked SBW and 3AKE signals at terrifle strength, although signals from The effectiveness of 40 metres for teeling up whit contacts was proven as no involve two events up v.m. contacts was proven as no involve was experienced in keeping in octact with VE7 on this band, at fact which undoubtedly contributed greatly to the success of the undertaking. SER would like to thank all concerned with the episode for their thank all concerned with the episode for their

thank all concerned with the opision for users assistance and indexest.

3RR confoirstly expects that contact will be made between VK2 and VK2 on 144 Mc this winder, and in view of the past effectiveness of Efick's preedictions, we look forward with anticipation to this coming to pass.

VICTORIAN V.H.F. GROUP ACTIVITIES

This group holds its regular meetings on the Table group holds its regular meetings on the Table group holds its regular meetings on the Table group. The Table group is a second to the Table group is a second to the Table group of these meethags and the entimatatic members will be sure to encourage you to activity on these bands, been arranged, so there will be asserted to the table group in the table group in the table group is the table group in the table group in the table group is the table group in the table group in the table group is the table group in the table group in the table group in the table group in the table group is table group in the table group in the table group in the table group in the table group is table group in the ta

at every meeting.

On the second Wednesday of the month a prac-tical sight will be held when w.h.f. gets and prob-lems can be discussed informably and the com-ment used. On the 10th of May, Mr. Lees equi-ment used. On the 10th of May, Mr. Lees equi-sion of the 92306.8 to 164 Mc. and those who have sign of the 92306.8 to 164 Mc. and those who have this ware. or who have struck trouble in the coverse.

Country members who are interested in v.h.f. affairs have not been forgetten and if trouble as being experienced with gear, as for example in the liming up of a converter for 50 or 144 Me. in the absence of local algunia, send it to the shr group at the W.L.A. rooms and this matter will be attended to for you and the guar actually tested on the air to see all its well.

As unusual DX opening on \$6 Mc for that time of the very occurred on 11th March when from 2118 until 0136 hours the next morning, \$4DE, 4KE, 4XX, and 4BT were worked with signals peaking \$5 The next opening was a short one on 7th April from 1180 until 1210, 4XN worked three VK3s Forther VES-VE7 contacts were made during Martin, with the best signal reported on 15th and 37th, on the latter date 3Hz Johnyd the solvet group of Malbourne stations who have worked VEC in extended ground wave by contacting T&L.

extended ground wave by contacting 73Li.

A new path on 144 Mr. which locks like being opened up soon is between Melbourne and Steppar. The state of 144 and although his antenns at present is only 15 feet taght be has been able to receive signals over the 1,000 ft Dividing Bango from 8485 in Melbourne. Boo milles own, 8487 by planning to put up a 100 milles away. 8487 is planning to put up a 100 miles away. SAPF

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The principal features of the new designs shown opposite are (1) An obvious and simple method of loading the cable without the necessity of unraveling or soldering the shielding or using additional means of clamping; (2) Low capacitance; (3) Low contact resistance; (4) Click engagement; (5) Clean instrument-like appearance and finish.

The system of clamping has been designed for solid and air spaced 4" diameter cables. Uniradio 32 and "Belling-Lee," list No. L 600, frequently used for television, are particularly easy to load.

The characteristic impedance of the plug/societic combination is of the order of 50 chms. As the component is primarily intended for television, the mis-match is insignificant. The self-capacitance, however, is very important and this has been kept as low as 1.5 pF. at 45 Mc.

A particularly useful application is for the aerial input circuit to car radio installations where low capacitance is of the greatest importance. The "click" action prevents accidental withdrawal under vibration.

Dimensionally, this component complies with the recently approved R.C.M.F. standard for a plug and socket to provide the input connections to domestic television receivers where co-axial feeders are used.

MULTI CONNECTORS

These carefully designed connectors are specially suitable for connecting power pack to chassis amplifier to receiver, and particularly for rack built equipment, etc., but their application to the electronic and electrical models are suffered to the electronic and electrical models are suffered to the electronic and electrical models are every time. All metal parts are silver plated, giving low resistance confact and facilitating soldering. The flow part is in black moulded backlite with locating key and side entry, to discourage withdrawal by pulling cable.

"O-2" pins rated at 10 amps can be coupled with eyes shut; single screw assembly. The socket panel is punched from sheet bakelite; standard fixing holes; two contacts are widely spaced for carrying mains voltage. Plugs and sockets are provided with sensible solder spills. These components are well worth using even with felle pins.

L331 and L332 have a shield panel raised well above the socket panel to ensure safety. With these types no single pin can make contact until the locating key has found its correct position.

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For the last weak we are had the postume of toking the "Ammander communication receives make actual Amateur operating conditions. The designed with the needs of the Amateur well in mind, and our very exacting requirements well cateful for, as is evidenced by the excellent band spread, availability and notestrity problems.

on, scentrary and solvectivity provided calling first with the technical specification receiver uses the double convenion principle, it frontings being 1800 Ke, and the dot it 100 Ke. The fate, is applied to the Ke. range, and very great stability in there-obtained on c.w.

which is foosely coupled to the first 100 Ke. transformer previously mentioned (sharp) Variable capacities are inserted in series with the i.f. grid lead to adjust the signal output to a constant level and our provided for the broad and meetium positions only. This selectivity control is most definite in its operation. The medium positions giving the approx-imate equivalent of a 455 Ke t.f. channel is otto-sing pour about the abarp selectivity position on c.w. reception was the promounced single side-bond effect, which is familiar to users of the QN'er

A noise figurer is provided

automatically adjusts itself to the currier level and when switched on cilps at 100 per cent. As the control

The speaker output fransformer is mounted in the receiver and output terminals are provided for a 2-3 ohm lood speaker Plugging in the one look speaker raugging in the phones automatically mutas the apeaker output. When the phones are plugged in, a 3 ohm resistance is connected across the aecondary llowever any Atasical would have me

With the b.f.s. pitch control set to one side of With the LLE pitch control act to one office of the sens best position, a promonence single-signature officer is appropriate to the said officer. The said of the carrier only if the half pilch control is one opposite office of the carrier in clim march. This is a demonstration of the high degree of selectivity away.

were extremely impressed with the next way which the difficulty of previding boudepread as general curvings was overcome. The main tuning gaing has there main sections and, in addition, small double spared condition is monaided in executor and stated by the same shaft and if mechanism. Separate statures are used, and let

The sales wood ment is as follows — 14 amold not be said to said the sales of the s

week at the let, 2nd, and let of the let of d May a so; for the merannical and fetr cal stability of this receiver Operation on the lower frequen is to be expected after the result that had on 10 metres and it was wan to be expected after the results data net on 10 metres and it was abeleus that both toe c.w. and phone man were well entered for. No trace of any modatum from the 2nd or chilator could be found, most manual and ill doubte convenient establishment.

Three positions of sectority are problems. Grand, 10 times flower a periodic Grand, 10 times flower at the Company of the Comp secondary of un additional 100 Ke. Li

main tuning cast. Surfative contacts are ps to each coil comportment to switch the cither the amail or large condenser in each of the main gong, as the strip is, pushed pulled out by the kmpb on the front panel.

on a slide rule with the contacts arranged on either vide. It can be seen that this type of swatch reduces the length of leads to a minimum. For Amateur landspread the knob is pushed in, and pulled out

The main five-position bandwhich is mounted by on the greated coverage handsety band witch, and by the method outlined above the receiver becomes a five-band bandspread receiver for Amateur bunds only, with the knob in the "fit" position. The different bands being selected by the norm.

ndewide.

The five termination bands, are calibrated on the five five scales of the large main dial, and the general versage on the four inner scales. Note that stiflen 4 on the range switch is not need for need or need for the stiflen which is not need for the stiflen sources.

On treateur coverage only, a small trimmer wided across the oscillator section of the receiver provided across the oscillator section of the restrict or action the cellibrated source accurately, and to consider the cellibrated source accurately, and to so a known frequency, setting the diff. to the cellibrate informer Air trimmers are provided in activation informers. Air trimmers are provided in activation informers and trimmers are provided in adaptive adaptive of the panter control is necessary when changing bands. Bandapread at excellent, the ranges and general coverage being as follows:

Genera Coverego 1.7—4 0 Mc 4.0—7 0 Mc 7 6—15 0 Mc 14 0-14 + Mc, 21 0-21-45 Nc.

None 15.0-31.9 Mr. 28,0-30.0 Mc. an aerial trimmer is provided for fine as justinum in the signal circuit, and also a sew, receive awife for classiquat from receive to trainmint. A pair of creginals are provided at the rear for connection to the transmitter relays. No detailing effects are present when changing from transmit to receive

present would changing from transmit to receive As seen in the photograph of the top view of the chause, the cent box is exparately mounted in the restrict of the minimum of the present of the control of the control

All coils are our three was a considerable and a considerable and the considerable and the considerable and the considerable and tremmers for all coils are according to the top, which is a great convenience for all coils are according ment. The only trimmers which have to be disarted from undermorth are the Amatter handspread guarted from undermorth are the Amatter handspread to the coil to the coil box.

long shift to the left of the cell box.

In the top rear river, the left hand row at the control of the cell box of the cell b

when the moderneath is the moderneath of the moderneath of the cope when the main points of interest the cope with the main points of interest the cope and the main that the cope which is the cope of the main power and the cope of the

compare resolutions to the areas and, only of the channel is some own of review relate, many verlage and controlled and of the controlled and of the channel is a controlled and other controlled and other controlled and other than review route panel being controlled and other than review route panel being controlled under the cubinet is enable the channel of the controlled and other than the controlled and other than the cubinet is enable the controlled and other than the controlled and other than the controlled and the c Terminals are provided on the back drop of the

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Science Heave, Center Glucoutz and Naser, Vivilla Shi-Geller,— S. C. Perez, 113. Schmidt Provinced Shi-Geller,— S. C. Perez, 113. Schmidt Provinced Shi-Geller, with Committee and Confess, Navership, Comf & Tabilitation, 2. Sci. High Committee and Linear Confess, Navership, Comfess, and Linear Confess, Navership, Committee and Linear Confess, Navership, Committee and Linear Confess, Navership, Committee and Comm VICTORIA

Dordray — C. Quin, V.B.190, S. Say, Law Cond. American Co. Quin, V.B.190, S. Say, Law Cond. American Co. Quin, V.B.190, S. Say, Law Cond. Co. Quin, V.B.190, S. Say, Say, S. S

All Amateurs are urged to keep these fre-quencies clear during, and for a period of 15 minutes after, the official Broadcasts.

VKZWI Sundays, 1100 hours EST, 7196 Ec. and 1000 hours EST, 50-4 Mc. No fre-quency checks available from VERWI. Intra-State working frequency,

VK3W1 - Sundays, 1186 hergesery, 175 ac.
VK3W1 - Sundays, 1186 herge BST, simultaneoutly on \$880 and 7196 Kc. and re-breadcast on 50 and 144 Mc. bands, 16tra-State
working frequency 7165 Kc. ladividual
frequency checks of Amatieur Stations given
when VK5W1 is on the air.

VK4W) — South at on the any EST, elevalance only on 3750 EG, 3100 EG, 1823 EG, check are given two nights weekly, and the times are announced during Senday brookeast, 7064 EG, channel is used from 1000 to 1030 hours each Sunday as VE4 query service to VE4W;

VKSWI.—Sundays, 1000 hours SAST, on 7196 Ec. Frequency checks are given by VE6DW on Friday evenings on the ? and 16 Mc.

VKSWI.—Saturdays 1400 hours, Sundays 0980 hours WAST, on 7196 Mc. No frequency checks available.

VXTWI —Becond and Fourth Sundays at 1000 hours S.S.T. on 7196 Mc. No frequency checks are available.

WI BROADCASTS

QUEENSLAND Secretary -W. L. Q.P.O., Brisbene Meeting Night.—Last Friday in each month at the Y.M.C.A. Rooms, Edward Street, Brisbane. Divisional Sub-Editor.-F. H. Shanben, VK4SN, Minden, via Rosewood SOUTH AUSTRALIA

La Stevens, VEATH, Box 688J,

Secretary.-R. A. Barbier, VK5MD, Box 1234K, G.P.O., Adelaide.

Mosting Might,—Second Tuesday of each mouth at 17 Waymouth St., Adelaids. Divisional Sub-Editor.—W. W. 483 Esplanade, Henley Be Parsons, VKsPS.

WESTERN AUSTRALIA Secretary .- W. E. Coxon, VESAG, 7 Howard St.,

Masting Plans.—Padbury House, Onr. St. George's Yer, and King St., Perth. Masting Night.—Watch the Monthly Bulletin. Divisional Sub-Editor. -- George W. Ashley, VE69A, 23 Mars Street, Carlisle, Western Australia.

TASMANIA

Secretary.—B. D. O'May, VE70M, Box \$71B, G.P.O., Hobart. Seeting Night.—First Wednesday of each month at the Photographic Society's Rooms, 162 Liver-pool St., Hobart.

Divisional Sub-Editor.—G. D. P. Clarke (VK7TA), c/a 710, 52 Elizabeth Street, Hobart, Tax. Mortharn Zone Correspondent.-R. H. Kiby, VKTRK, 5 Galvin Street, Launceston,

FEDERAL 20th ANNUAL FEDERAL CONVENTION

The 10th Annual Perfert Convention of the WLA-wa had ever the Enextra perior J1-10th April, 17-10th April, 17-The 20th Annual Federal Convention of the W.L.A.

Moss (40M), and Mr. J. Brown (184).

A novel feature introduced by Federal Exsecutive was the wire-recording made of the highlights of Lin Convention including the motions, and their controlling, which recording will be made satisfable to all Divisions for the general meetings and will serve a useful purpose in indicating to all members the deliberations of the Convention.

the denorations of the Gosvention.

The Annual Diluter was held on Saturday night at the Hotal Ceell and attended by the Chief Insepector (Wiceless), Mr. J. Martin, who gave a short address on amateur contexts and the happy relation things between the Department and the Pederal Executive (much to those members' embarrasament) Mr. J. Martinad Mindly invited delegate to spend Wr. J. Martinad Mindly invited delegate to spend the evening at his pisce, where a good natter had by all who attended. The relevant sections of the Convention determinations will be printed in next month's "A.R."

FEDERAL SECRETARY

Due to Army duties abroad for a period of two years, the yrment Federal Secretary, Mr. Bill Mithell, has bad to resign, and Mr. Max Hail Mix We all extent to the contract the part of Mix We all extent of the contract the part of progressive period in the office, and to Bill our best white for a happy sojecure overseas, and a safe return to his native land in due course.

DX C.C. LISTING

The Awards Committee submitted a new set of Rules for the DX C.C. which were approved by all Divisious, and will be printed in the next fame.

The new Rules clarify a number of anomalies that existed in the present ones. Applications received before the date of publication of the Rules will

YKSJD (1) 56 148

YESRU	(\$)					37	181
						25	129
ARSEE	(20)					3.	125
VE43P	(8)						114
YESDD	(4)				* *		213
1 K4 K2	(0)						112
A MARKA	(2)				-		
ARATS	(11)			-			112
VK4HR.	(11)					3.5	107
							102
AKAIG	(5)						100
YESJE	673						100
	,						
C.W							
VESBZ	643					40	165
VKIEG	195					40	159
A ESCN	711	-			-	40	161
VE4EL	101	**			- 1	40	740
1 K3KB	(2)					28	
12022	(10)		-	- 1			136
VKSVW	543					40	185
VKtQL	(5)		-			40	133
VK4HR	(8)				-	40	126
						3.8	TEG
AR2EK	(3)					59	122
VE4RF	(11)					3.5	119
VKeRI:	4181						116
VKSUM	120						115
VK4DA	(22)	· ·				35	113
FATUR	(,,				* 4	45	114
New Member:							
AKILT	6241						100

VESEZ (4) 40 VESEZ (1) 40 VESEZ (8) 29 W.I.A. ACTIVITIES CALENDAR Nay 7: Minutes of 20th Convention issued.

ntre

June 3. 4. 1950 Trans-Tasmen Contest. June 7: Ratification of Convention items due with F.E.

VESJE (12) VESEW (13) VESEW (13) VESEW (13) VESEW (13) COUNTRIES LIST

We hope to be able to publish under this head-ing from time to time, stations which are of doubt-ful authenticity and those known to be pirates or not where they purport to be, t 48BD, UP2-Not in Lithuania as prefix would indicate, but in White Russia or Byelorusals

VRIAZ/VRIB/VRI—Allowable under KBO, Canton leland and not as British Phoenix Islands. CZ2AC-Not in Munaco as alleged, but in Switzer-

Vt 4CN - A R C L advise not in Andamaus as sup-posed as VU6 prefix allotted to University etaLiona Ad PX sisters - Those that have been heard as far are not egitimate or even believed to be there.

SP stations—From the R.S.G.B. is news that all SPI prefixes are pre-war SPs, and SP5s are post-war stations. SP stations are not yet allowable as information is avaited on Polish

DE siziloss-Not at present allowable, but will be under new Rules.

VE4SI/VR4-Pirate and not licenced by P.M.O. We are in possession of a lengthy hist of alleged overseas puzzles and definite information in this respect would be appreciated by the Awards Com-mittee, Bex 2611W, G.P.O. Melbourne, who would be pleased to have such evidence.

CONTESTS-TO BE OR NOT TO BE!

Contrary to expectations, replies are now caming to hand on our provocative Editorial of last month, which at least indicates liket consecue does read thous I one is from a well known listener and the chees from livenered American, but what of the isp Corniest mero—on words from them yet, What adopts, it, fellowed Surchy you have weede on this

Amsteur Radio, May, 1950

CHANGES TO AMATEUR CALL SIGNS Arrangements have been made with the P.M G's. Department to publish monthly amendments, and the first of those is as below. This list is supplementary to Supplement No. 2 and includes altern

New Issues-

VK2AC19-G, E, Whiting, 16 Louden St., Five Dock, 2AOS-R E Schneider, Munnell Falls, Euman ZAPL-N. A Loffman, 14 Remani St., North 2APIL—N. A. Loffman, 14 Remani St., Forth-Paramatic.
2APS—S. Smith, 58 Upper Street, Tamworth-AcqU4—N. O. Myers, 116 Brainide Rd., Wemb-worthville.
1ARQ—B. S. Gorr, 10 Kara St., Randwick.
2AVG—E. G. V. Gabriel, 39 Narooms Rd., North-kelmen. 2AVG—E. G. V. Gabriel, 39 Narcoma Ed., North-br.dge 2AWG—W. J. Grunt, Englands Ed., Boambee, vis Ocfa Harbour 2AWN—V. J. McMillan, 25 Waters Ed., Marcou-2AYR-D. E. Evans, 31 Sandridge St., Bondt B. 2AYP-H. Y. Poweli, 9 Russell Ave., Wahroonga.

VESUS — B. Rusch IN Numerica Science Ave. Frankrossys.

VESUS — B. Rusch IN Numerica Science S SALK-W. E. Dixon, 450 Graham St., Port Mel-

SALK-J. R. G. Harris, 146 Patterson Rd., Mootabbin. SALY-L. J. McKay, 40 Forrester St., Essendon. SALZ-R. F Miller, 75 Letrobe St., Warragul. SANK-L. N. Hacainsh, Eltham Rd., Warrandyte SANP-K, J. Parker, Cartabrook.

SAPC-The Moorabbin and District Radia Club, o/o. Public Library, Point Nepsan Rd., Moorabbin. 3.AWB-W. Brownbill, 22 Glenmergun St., East Bruzawick. SAWD-J. W. M. Davey, 37 Weatherall Rd., Cheltenham VK4AL-Major C. Allen, e/o. Chief Signal Officer, Northern Command, Vic. Barracka, Bris-

banc.

ADF-R. D. Prunger, 9 Pound Hill, Gympla.

4JO-J. M. Ross. 65 Liverpool Ed., Luyfield.

4MS-R. E. Sallivan, c/o. Chardons Hotel, Anseriey.

4QL-F. 7. Hise, B.A.A.F. Station, Garbutt,

VKSRJ--J. A. Hampel, Berri. SBV--R. C. Howland, c/o. D.C.A. Mon., Dur-SBV-E. G. Howman, c/o. B.C.A. Hees, Darwin N.T.

5DK-D S. Kelly, c/o. Mrs. Belwerd, 23 Kirk-caldy Ed., Heeley Beach

5EN-A R. E. Hitachke, 192 Ellen St., Part Picie.

5PP-F C. Purcell, 429 Esplanade, Henley SGT—R. J. Chamberlain, 3 Clifford St., Lockleys. 6KS—R. A. Seduntry, 28 Pirie St., Solomon-town, Port Pirie. 5WO—J. R. Condon, Laure.

VK6LU-L. Stagg, 52 Esperance St., Victoria Park 6TY-A V. Savory, 153 Vincent St., Leeder-ville.

VKIER-13 Stapleton St., Wentworthy: 1EO-34 William St., Hormby. 1EO-1 Scfald St., Punchbowl. 1KK-159 Olemoore Ed. Paddington. Wentworthville 21.B-383 Cabramatta Rd., C 2MJ-16 Green St., Cronulla. Cabra 1MN-65 Currawong St., Young. 1NB-55 Chishofm Are., Beimer. 1ND-15 Anthony St., Croydon. 1OP-258 Catherine St., Leichhardt. 1ND—15 Anthony St., Croydon, 107—158 Catherine St., Leichhardt 1QF—9 Barde Rd., Newport. 1SF—38 Qurean Rd., Councills Polo 1YN—119 Springdale Rd., Editar 1XX—90 SyoSorth St., Corenorine, 2ZT—9 Russell Rd., Betw. Lambten, 2AAN—31 Hill Gt., Belmont. 2ACM-60 Roelyn Gard., Elizabeth Bay, Sydney 210W-19 Trafelgar St., Stanmore. 2ADR-78 Flets Ave., Earlwood. 2AJS-c/o. Mrs. Beatty, 66 George St., South Grafton.

2AEH-S.R. "Moors," c/o. Adelaide S.S. Co., 23 Bridge St., Sydney. 23KV-26 Page St., Botany fALO-S Lytton St., Wentworthville.

2ALW -c/o. Post Office, Darby's Falls, via 2AMD—Ocean St., Windams.

VESAH—"Assburton," 15 Vernon St., Croydon. SEX 209 Milcham Rd., Mitcham. SEZ—Walorz Rd. Mont Park SNQ—17 McLean Ave., Bentleagh

3ALN - CF BRUCKEY St. As And And St. Farth Woodland St. Essendon.
3ANA-S Finlay St., Albert Park.
3ARL-Cr Dazilngton Rd. and Hawker St., Stawell. SAVK-901A Eyro St., Ballamt,

SAVA—901A Eyre St., Balant, VK4EW—"Spiratpine," Yowles St., Red Hill 4FH—Malcolm More, N. Mackey, 40H—11F Fullas St., Marybovogh, 4IV—54 Bridge St., Albion, NY—Boomedy Rd., Camp Hill 48H—11 Ruby St., Eather, South Bristone, 588—14 Mise Gook Highway, via Colina. 4TB—Stemeleigh St., Coorperco. 4WO—81 Park Rd., Yeronga, Brisbane. VEGAR—TEAR Son, Secondar Microsty, VEGAR—TEAR Compage And Secondary Compage And Secondar

SUX-Kulpara NGAZ-11 McMillan St., Victoria Park. 886-7 Hooley St., Swanbourne. 8FB-57 Stath Ave., Bastondean. 9GU-94 King St., Boulder. 6GY-128 Abbett St., Scarborough



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6JN—Mecketing
8FX—Hawkettone Rd., Roleystone.
cWL—Curming St. Brooking Com., Application.
VR7—c/o C. Relson, McChilum Com., Application.
VR7—c/o, Didde, Main, Rd., Moorah
VR7E—L, Main, Main, M.D.
VK0FI—c/o, D.C.A. Madning, M.D.

Delations

VK2QL-Station now operated under VK4QL 2AAF Station now operated under VK5DK 2AMH—Cancelled 3HP-Cancelled

VKARG-Station now operated under VKTARQ.

FEDERAL OSL BUREAU

RAY JONES (VK3RJ), MANAGER The new postal address for the Venezuela QNL press is Radio Club Venezulano, P.O. Box 2285. Boreau is Radio Cl Caracas, Venezuela,

Caracas, Venerueus,
Drian Woods, ex VK-62I, of Thursday Island, was
recently in Melbourne spending a well earned vacation. Brian, on resumption of duty, is scheduled to
to commence at the A-W.A. Station at La Percoar,
Sydpay. We will probably soon hear from him
under a VK3 call sign. Enter a VAS call sign.

The R.E.F. staged a Contest on 25th-25th February for c.w. and on 4th-5th March for telephony.

Information of the event did not reach VK in time
to give publicity to same.

to give publicity to same.

A unique method of acknowledging QSLa has been deliced by SULCR, who on receipt of a card samps the reverse with a rubber stamp impression reading, "SULCR many thanks for QSL," and a tryther stamp impression, "Return time," to be a card on the summary thanks of the gast, and a card on the summary to be a card on the summary to the summary to be a card on the summa

card ... FRACC. Radio Engineer in charge of com-portant lend in the Companier and the best of the companier of a public bare confecting the companier of a public service. Further tests are subsidied to take place for the companier of the companier of a public service. Further tests are subsidied to take place TQA: (Print) on 1060s Ex. from 1000 to place 10 MT daily Later a talephony service with Au-terials to prospect. The transmitten used run 10 kev. ----

NEW SOUTH WALES

NEW SULIR WALLES.
The monthly meeting of the Division was shift
at before House, Glochester Mrost, Spithery, at 8
well attained; and statutor present included RRM,
3CB and TCL. The main business discussed was
not been supported to the statutor of the sta

GOAL-FIELDS AND LAKES

ARU WAY Door greened with work, but mantive the state of t COALFIELDS AND LAKES blace the last notes the Cualfields and Maitland gaves have had an energreep unt meeting and CNly Explorer of Maitland, fADX, supplied information that was an exceptored with reference to what our take place during Hunter Hiver Scode. The emergency net has a practice run each mouth, nine stations participated in the last core, and anyone retreeted metall contact John Traili (2XQ) at Arrested metall contact John Traili (2XQ) at Multland,

offering the control of the control

It is regretted that Western Zone notes are not available this month. Zone Officer Hugh Stitt (SWH) and many others have been active in emergency working out West for many days now. They will appear to nsual in the next issue.

144 Mc. record with 280 at Bowral. Doing a little on 80 and grabbed a new country on 10 171 hopes to leave in a day or so for Urunga with 2ADT, here trying receivers out for a few weeks between jobs for the XYL.

NORTH COAST AND TABLELANDS

The WIJA North Count Convention in he held through ever finder is the talk of the hands. 2MM and 2KR were early on the across and had 2KR were early on the across and had a work's falling before the "Mo" stated 80 is exceeded to the country of th Nothing heart 1-d PND 18 you trad three notes Jim-please lets show what's cooking with your DL etc 22. "14%, Kempsey, very active on 40 these days, method hard organizing the Courcetion. Col very pleased to know that the Gration's Girler Band is 40 strong, will be at Ermany during the Cocretion 2PA has another harmonic—TL ISR, IDS, WW. 24VY and 2AMI BOO very active. 1488 heard on 10 only.

2DK sod 2JC have nice signals on 40 and 80.

2WT working Do on 20 with his wer beam with
the greatest of case. 2ZX heard on 40 every night
with an SO signal 2TB the most active Ham from

with an SP agenal. ITB the most active Jamm from Grafton. SPM mostly literating and doors' miss organized the special special special special special to the special special special special special special representation of the special spe

50. 2.4 JB Reeps Colfs Harbour on the map; he is a kwen Ham, has re-built new Rx and now putting very solid signal out. 2DX, MacAsville, active on 20 only. We all hope to let you know about throngs in the next fame: Stop Press—2DF has bought a hours, age unknown, hot new delivers the mail howard in the rest is never delivered the mail howard in the property of the property of

HUNTER BRANCH

HUNTER BEAMCH

The Mighlight of the most has underdiscilly the transition of the control of the control of the control of the control of the discount of the discount of the discount of the discount of the product of the control of AMD, EXV, FARE and SUY, What a trip! to CW completed silten more work on the rig-heard initing of cars proposity. LXT look some of the local gains up to Makilian crossity to attend to the local gain up to Makilian crossity to attend or meeting being a laik on the effects of floods on Matinad for DU Degatore, Jack Brand (LAM), and EFF morphi draking mith shales in a Mailland and EFF morphi draking mith shales in a Mailland of the country of the contract of the country of the country of the country of the country of the body late. Frost 0 more concerner working, as look little mother whit. men. 320 will not look all the country of the state of the country of the country of the country of the state of the country of t

looks like sincher v.k.f. mer. 130 still of week of the distribution ADAS annohed recent One of the distribution ADAS annohed recent ADAS and the Conversion where operations taking at the contribution and the third properties of the work of the contribution of the c

Inactive.

Jack by the wer, us using pos 2076 on 6 and 2420 based on 0, has the 10 bases well notice at 1240 based on 0, has the 10 bases well notice of the 10 bases well notice of the 10 bases, and the 10 bases well notice of the 10 bases, and the 10 bases well not 10 bases

SOUTH COAST AND SOUTHERN

We learn from 2PI that 2TV, who has been so hospital for four months, has recurred home 2TV was active whilst in hespital, but activity was our-tailed due to the high noise level from distintray matchines in near vicinity. The many friends you have extended good wishes for a speedy convoluence.

OM.

Had pleasurs of meeting 2PN who duplayed his new grar which is of extremely floe bashoose construction. A double conversion Rx is built and works like the Rx we build castles about. £ARR axes also at 2PM and quite a but of Har olative took place. 5.ARR is technicism at Psi'amen' House and is also a very kee Mam in apare tites. Ouse and it also a very keen man in space cause. SFI has his gear nicely set up and a boam for 0 metres will shortly grace his QTIL. 21f gate oc details of his gear during a QSO and when I sixted Les two hours later he was still looking about pub butters, bandware and garping about pub butters, bandware when the public pub

starry eved and gasplus about push bettens, bash-metiched, etc., relying the hately wither report to 1240 however the first the hunters and of the Lack at live. Would's it all the hunters and of the Lack at live. Would's it glaves, seems the stars, always exceed quality and old copy. It a not, wand worr, I mear in that does not me any post Mr. word, and the start of the control of the property, and the start of the control of the property and beginning the day word around the property of dended to room back on the aft. Kitch-ro-building and re-organisation of present gast is the very shortly day of 8 Ke. Will be given a causile

bridging and re-emphasized of present gat it is desired by the control of the con

a ray recemen nouse is, piezee was rages searce.

2 AUW and EANQ are planning some 144 Me guar and have talked 2EU into having a go on that band, 2 ANQ GHL with palati breash around shack.

Only other active stations in Albury are 3BP who as delving into the innards of ATS ARSs and 3HP who is active on Sonday mothings.

At 1815 bourn 16th March, when SEU had for evolched the XTL's radio on expecting to have ber brownite sards, any edge targetered to hear. This brownite sards, any edge targetered to hear. This ing to any the least. Continued listening present in to be the radio sarial still an proposes with some circockreton of lim Radio to make it more later-spite as the limb phrases get in for good measure. The sarial dictor's become any more interesting. In presents of the target of the sarial control of the properties of the target of the presents of the target of the sarial control of the sarial control of the present of the target of the sarial control of the sarial control of the present of the target of the sarial control of talkie goar, were probably asserting for the lost hero in the Strathbogic Ranges.

Bugh, the new Zore Officer for Western, is doing received work on 80 meters anxisting Eastern Command Endquariers and the Army dacks in the Hoofed area of Forbes and Cours. QRM from ZL stations in caming being in the handling of testificant Pigh is informing those who are operating must be from the control of the contro noar the frequency

max 1 a frequency
on behalf of this none. I extend congrain to the operation, of 1 MW/P on there success in the field frequency of 1 MW/P on there success in the field frequency of 1 MW/P on the field frequency of 1 means a positional paice in 2 MW/V NWP is having great results with the house per interestant it is a muscopy dook. Luttes seven to interestant it is a muscopy dook. Luttes seven to interestant it is no muscopy dook. Luttes seven to leave a conferrior in Wollogome (40 inches since Vena; 2 MA/S and 1 DO are thinking of 144 Me and have managed to get hold of gerr that, should with minusan of trouble operate shows there

VICTORIA

The annual rectifier of the Division was shell of the Division was shell of the Court of the Division was shell of the court of the Cou

world the Pro Magazar, T.A.C. Generalizations, The Internal Proceedings of the Proceedings of the Internal Proceed All members should have by now their account for the yearly subscription and the Secretary would be pleased if these accounts were settled as soon

he pleased if these accounts were settled as see as youthless.

Bill Mitchell (80M), the Federal Secretary, in resigned. He is going abroad and the Institute with hum box voyage and a safe return to his mathind. Max Holl (8285) has been appointed in fostitute We notice that the transmitter room at the clob rooms has been cleaned out. We wonder what is going to happen—VRSWIT The Federal Conven-tor has been and good and by all reports was an round # of success

TECHNICAL COLLEGE LECTURES

It is proposed to hold a further series of lectures at the Melbourne Technical College and it is nec-essary for members intending to attend these lec-tures to advise the Secretary of the Victorian Division by Monday, 8th May.

y Monday, 8th May.
The lectures will cover the following subjects:— Transmission lines and serials,
V.H F. to Microwave Principles,
P.M. for Communication,
Pulse Systems,
Televison.

Television. Modern Radio Naviagation Alds.

Victoria Radio Navigalion Alda.

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and the standing waves for in the source at 10 MaX at 1740 year.

The size for the source at 10 MaX at 1740 year.

NORTHERN SUBURBAN AMATEUR GROUP

A very successful meeting of the lade was held at the residence of SME on Friday, Slaz March. Congratulations to Reg and Glad for a grand job. Roy Haines (SEI), our jorial President, occupied head of the jubble as musal. Alan Row (SAS) has made arrangements to bring English engineers to our meeting soon to let us know all about the good work done during the last war by our G beothers.

Three our members were unusies for the Saxe Consoil. Three three fellows were called upon to air their tiese through mock QRM. A motion of congratulations to VET from VEE concerned in the record Reas Strait crossing on 144 Mc was unanimously carried. It was a grand night and thanks Effe (40rs. 2484) for your assistance to thanks.

THE MOORABBIN RADIO CLUB

THE MODOLABAN PARIO CUSS
The monthly moting of the above cloth was held
to monthly moting of the above cloth was held
and visitors were present. The Proceeding, Jun Remater and the state of the stat

present to later.

Great was the autorialment thereof when the Great was the autorialment thereof when the end of the control of the control of the property o

3 vote of thanks was recorded in the minutes to these two boys for their very fine effort. Kext meeting will be on Friday, 19th May, when a lecture on "Eshaye" will be given by 8tan Levings EASTERN ZONE

During March and April a large alice of the sno-suffered considerably from widospread Societies, eve-suffered considerably from widospread Societies. At Williams, (SWE) once, again lays the societies of contact with the outside world when the feltphone services were durayed: Sail spert quite a while working for the P.M.G., seeding teleprams and things and the SWD performed nobly. Mice work,

Throughout the size the boys have melletained listening ward on the 1908 Ke, energetory frequency, A certain VK-eno State mentioned—compared that some of the Hams, working on this frequency during the flood, were interfering with his DX chasing, too bad!!

No word from the sale boys as to their doings in fined time and if I don't get some news from them for not notes, if will take drastic actumutat's a promase, boys, not a threat! \$150.371 have left & Ged Hill and are at present visiting \$100.311 at the contract of the co at Omco. flay has moved hato his new house it bad, and home to be on the air whas everything in ship-scale and the state of the state o

Table the burning of the second of the secon

to exclude, the flatters float keys take a true book to go for time of the suppression that the weakly MV benedects chould be altered to once a much to be suppression to the superior which floating was might. For clean, it is the only war that we, in the country, one find and the superior which floating was might. For clean, it is the only war that we, in the country, one find and the superior within great suspicion in this story, which is regarded with great suspicion in this story, and as many lattice of the superior within great suspicion in this story, and as many lattice and some superior within the superi

CENTRAL WESTERN ZONE

One 144 M. deller, one Linten Severe (1982).

One 144 M. deller, one Linten Severe (1982).

VII. bench-through on 144 Mr.; the dressey body (1982).

VII. bench-through on 144 Mr.; the dressey body (1982).

VII. bench-through on 144 Mr.; the forms bord, the limited of the sametra body of the form of bord, the limited of the limited of the form of the limited of the Load and Stawell

the early hand they can work on it night between SIRI, is more definitely in the middle of a good hand of Ham service, and may be able to the same of the same of

Hew is the tower cod baxas?

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GEELONG AWATEUR RADIO CLUB

GELONG AMATCHI RADIO CLUB

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and

the show for the public was over. BOUTH WESTERN ZONE

SAPG has sprung a surprise on his colleagues in Geeleng by acquiring an Eddystone "680." I wish you lnck with 1: Phil and hope you have many happy QSOs with Pt. 7 Mc. c.w. DX has

been proving betweeting for 180, takes word, Bab with the 22 style. The new reports here tell me with the 22 style. The case reports here tell me and a solution of against in the final in the solution of th

QUEENSLAND

QUEENSLAND
The 18th Annual General Meeting of the Gosenser of the Control of the

PRESIDENT'S REPORT

In the AMPRICAL PROPERTY OF THE AMPRICAL AND AMPRICACION AND AMPRICACION AND AMPRICACION AMPRI responsibility on the country representative "Activities during the year have been confined the year been confined that the properties of the properties of the press year, but we would do required during the past year, but we would do the properties of the press year, but we would do the press year of the press year of the press of the press

captive acres and the control of the

but more are needed.

"Contillate no.—The rules of this Bivision, as Couvel has been aware for some time, need creating in many ways, and it is hoped, with the help of proposed Federal Constitutions, that the Committee satigned the job of attending to this will be assisted considerably in the work and be able to finalise something in the very near future.

Finance.—The financial position at the moment is not in a particularly healthy condition, although it prusmin a frare position than at any other period it prusmin a frare position than at any other period tions fall due on the not date. Council moved which when the condition of the condition of the which when the condition of the condition of the menta during the year and the incoming Council month to well advised to study closely any means would be well advised to study closely any means mattle during the year and the incoming Coursell mattle during the year and the incoming Coursel of Profesion: express where possible, without see relies that couls have increased in every like and the virtue have opposed and the objects acclude of the course of the c

"Zanieg.—It is gratifying to see the 4W Irved mate are being matassized regularly, and that mate are being matassized regularly, and that material regular and the property of the booken, are at least lifetime to the area. This fasters is the epichest and most logical means all the state of the control of the state o "Zoning.-It is gratifying to see the 4WI broad

pathop and will of course provide a gable as to be a "I cannot jet the poperatorly pose without have conting when patients on Cannot see without have conting when patients on Cannot see without conting when patients on Cannot see without the continual cont

to show their organistic shifty. "In conclusion, gratience, this conclusion my lith ver as Praisional. I think I have had a good intaking. I have not grown tired of the job or discontinuous." I have bad a good intaking. I have not grown tired of the job or discontinuous notation of the part of

ANNUAL DINNER

come 715 & C. The prins was a midget decider, and a congregation of the control bank to be complete, and the first the control of the control

exective total."

A competition to write down 10 prefixes from a list read by the President, then 10 countries from list of gretians read was won by 450, who received a 5-facts speaker. Competition to write down the States of the U.S.A. gave 4PK a pair of 6Ak and

As we write these notes we have learnt that 4E has been transferred and relinquishes the post of QSL officer. Two nominations have been received namely 4JF and 4PE. A ballot is to be taken

Manager 40H.—4RU gate away his quad and is now using a 08PO. 40H heard only on 7 Mc. cw. Local inds have organised a continuous DZ Contest, and 4RG. The trophy is a handcorely mounted framamitting tube (burn to cot). 4AI has overcome his beal trouble, hopes to get his talephone pale arcted some ASY making a combeake of 82 md 10.

DOWNS ZONE

Manager 4(D.—4CPT) and the first five Juriol Econ for the Collection and the Market All Particle Econ for the Collection and the Market Alpha working active in emergency met. Heard 4DA working FXALD. 44B bindisyring in YAS, hopes to years active on 40. 4EK attll active from Milmerrus. 48G re-building home in Her of fig. 4MA fring only a "flany whise of fasting mist" (Longfellow) take of his private S0 provinces. In conclusion we express our thanks to all these who gave us their support in the recent ballot.

SOUTH AUSTRALIA

the members such lots a first of assemblence during the control of the control of

Paul Roham (OKIVE), and D. Belly (ex.SAAF, now 5DE) 5GD told me at the meeting that he had received a letter from Dr. Adry, who is now in England, and that Ross had wished to be remembered to his "air tummeled" frieed. If I have told him once I have told him a thousand times that it is not fai, it in

members because of a lack of nomitation.

I take to keep referring to 8 White play, but I and add on good authority that one night reseally he play to the price of the short. Next incoming the word down and found the pipe about three toober from the reason of the pipe about the process from the reason of the pipe about the process from the reason of the pipe about the process and the pipe about the process and the pipe about the process and the pipe about the pipe ab

at least if did not "iddley wick" as he had beevided will regret the fart that 64W has decided to resign from the Council owing to pressure of business (an eat moskey business) Rosa had discussed to the council owing to pressure of the council of the 20,000 QSL cards presented to the WK5
Division by the South Australian Tourist Bureso
are almost ready for distribution and the sample

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cards on view at the meeting look z splendid job of work. It is suggested that these cards be used for DX contacts and for people like me who examot work DX, then use them for Interstate contacts. I don't know whether to thank or query the View. I don't know whether to thank or query the YR4 who wrote a letter of appreciation to me and said that he had never road anything like the way that I write II. A kle'k id he pants or a pet on the back OM? Which reminds me, there have been no alife letters on brown apare lately from Federal Secs, Federal Press, Editors, or other upper crusters, dispirately are otherwise. Can it be that I am losling dispirately are otherwise. Can it be that I am losling

disgrintled or otherwise. Can it be that a an noney punch!

5WF tells me that he shoved up an aerial (a long wire) built to very rough dimensions, and worsed the world for a couple of nights. Fulling it down, he pruned it will meticulous care, hoisted it up with mathematical precision and has worked nothing since. You amass me, my dark friend.

It up with authorated precision and has worked to the price with the best perspected for reader, it is a price measure to the filters. Toman, but most to a price measure to the filters. Toman, but most the filters with the price with the print with the price with the price with the price with the price wi

ning a secret. BNA will be its princip by these parties of the properties. Need a gar any most of the properties of the

Henry MXT. Sphings a long battle with the SIX is the last has been patient in the heart has been patient because several of them were heard remarking the because several of them were heard remarking the same several contract of the same several contract of the same with made that the first heart first heart first heart first heart first heart first which was the track the best broadcasting state in trial. The contract was the same with made from soft from the first heart first heart from the same several than the same seve and a lock and Cassal were in strained inspired on growth throw his place to this short, and the strain of the con-traction of the contraction of the contraction of the con-alithment any natural modesty layer me fairly quick-less the tenters in broads of inserts of our prob-lemant of the contraction of the contraction of the con-traction of the contraction of the con

you!

50D is transferring from broadcasting station
5AU at Port Augusta to local 5KA where he will
replace 5RF who, is turn, will join the staff of
local 5AD. I understand that all these broadcasting
stations may be found on the dial if one cages to
lock, but you know me, shem! Pancy me giving
them a free plong, I must be getting soft. Recently a number of licenced Amateurs other interested persons met in Darwin wir

Recently a number of lisenced Amateury and other interest persons need in Barrist with the interaction of ferming a radio club. The fatital bers including nine Heocock Amasicurs, and it was the desire of those present to become associated with the YSE Division. Good work fellows, and don't forget to ferward any nofes you many have. The Secretary has written to you change with full information.

Talking of letters, that remainds me the dis-honorary, sorry, honorary secretary at last has written to me. Certainly it was to remaind me that may subs were overdue, but beggars can't be choosen. Milk has been started by the same at every the order of the same at the the Northean State and the State at t

menter from the day page for a factor and the contract of the few decibels behind on the records instead of aquiriting them up into the sky. Fig upon you fel

for decidable behalfs on the records issued of a form, as if we will knew Y combined (represented by the property of the prope

solve sight with a trimerish bookup on 14-14 to 12 to

WESTERN AUSTRALIA

The March meeting of the W.A. Division was bedd in the Institute rooms with our new President, KW, in the chair, Despite favoursales weather KW, in the chair, and the control of the members to obtain full benefit of a lecture of was decided to poutpous a rather length, section of the evening's business, namely, directation of the agenda items for the forthcoming Convention, until agenda items for the formeoming Convention, until a special modilog ister in the most. Details of office-bearers in the incoming Council were given: Parison, Mr. O. Hayman (6GB); President, Mr. R. Bugo (6GB); Vice-Presidents, 6MY and 6BU; Hon. Secretary, 6AG; Treaurer, 6RO; Emergency Network Officer, 6WH; and Bulletin Editor, 6GA. Network Officer, 6WH; and Bulletin Editor, 6GA.

A Constitution Committee was appointed to give consideration to the new model Divisional Con-stitution. Members are 6KW, 6WH, 6GM, 6AG. and 68A. Mr. G. Moss (6GM) has been re-appointed Pederal Councillor for VKS for a further year and will be our representative at the Convention.

After the business of the evening concluded an interesting lecture on "Microwave Technique" was delivered by a guest lecture, Mr. R. Pariona. The subject was popular and was well received by

subject was popular and was even received as a Content Committee was nonimized and appointed consisting of 6700 (Chairman) with 67W, 9VT. 68A and 64X as members. The Content will be of the Content of t

PERSONALITIES.

EXECUTED IN THE PRESENTATION OF THE PRESENTATI all be digring out those "QST" articles on TVII GRL at Northam has been on regularly at the week-ends on 7 Mc. and reports activity on ten with his 8 wutts from those d.c. mains. Most spalogies for the absence of v.h.f. notes these days, but am not a v.h.f. nas myself (yet!), and have to depend on what information is passed on to me.

OWO at Alberty puts full marks for a very subcome to the control of the control o note his OTI proving popular these domaique. SEX will worked on a new converse using the SEX will worked on a new converse using the control of the second o next one, Horris, bot don't give up hope yet.

Harold, 6AZ, has a CE earls somewhere be complete
his W.A.C. bot just can't locate it after his recent
shift. Woulder't iff. In addition to 60M going
East for the Convention, 68K and 68B will be
across that way und may attend as observers for
VKO. 6WT has been mabble to get on the sir
talely upte of OFM difficulties, bot is showing interest

TASMANIA

in simple gear for 146 Mc.

At the Auril neeting on Westernberg, 5th, the first profession Convention, which at the first profession control at the first profession, which at the first three first profession control are those with the first profession control and the first profession control that the mark and, thinks the third VKP. Loss confirmation, he reviewed a few mers and and has been confirmated by the reviewed a few mers and and has been confirmation for the property of the statement of the property of

7LL has built a very natty little grid dip meter, high he entered in the recent competition at the inner. I like the push to operate battery maying sature. Methicks there will be others building the state of the s poless from a standard TV receiver and then using these pulses for synchronizing the outgoing signals in the transmitter. At the same time incoming the state standard TV receiver.

The W TV band for Hamm is from 420-430 Mey, which is well within the range of several of the v.h.f. tubes available in this country, and as far as far, receiver is concerned should present little in the case of the transmitter, there are, of high enough power rating for these frequencies, some K of K of the K o up to 30 miles for atill pictures with little difficulty.

I how to have more information shortly on the
VAT can once again pull it off. Enough resulting
VAT can once again pull it off. Enough resulting
values are supported by the control of the

switched deliberate of some factors in this course, and at the last interesting a filter, which is salter on the staff of a local RC station, were based to state facts the state of the st

spurious radiation as many a Ham transmission in ... 77A is giving up two wheels and is purchasing a small-cut. What has the bory puzzled is just how Geoff is going to get not only himself into it, but also the inertiable piles of radio guar, not to make a straight of the property of t tion also the Inertiable pilits of radie start, not to mostly citizal better, assumpter, i.e., A visit mostly citizal better, assumpter, i.e., A visit mostly read pilit. There are some assumpt us who notes reach pilot. There are some assumpt us who takes the pilot and for our off you fill its come visual new magnetisms are the best BC starton in the complex pilot of the pilot of

that way for accord months longer.

It's a bit difficult to write notwer when moledy and the state of the sta

time.

There have been a by good rights on all, depute the cases of \$0 consider as dead, it that the classes of \$0 consider as dead, it that the class of \$0 consider as dead, it that the class of \$0 consider as dead, it that the class of \$0 consider as dead, it that the class of \$0 consider as \$0 consider

NOGTHERN ZONE

The March meeting of the max battle is the King's Ball, and the service of the max before it to the King's Ball, and the service of the max before the to the conditional by the terminal through correlating the single properties of the service opening prompted host of the multitated, and generally prompted host of the multitated, each condition of the service opening revealed the fact that they choose only gathered for a factball uncertainty. So, the condition of the service of the

processings began. Election sight it was and from the fights emerged victorious (f); President and Zone Co-Re (ambiguous), TRE, Secretary, Sate Counciller, Treasurer and QSL Distributor (is that all?), TLE; and O.C. Lectures, TRE. Here a word of appreciation to the retrieng President, TDR, for his handling of the job draining his term of office.

Doings of the month are mainly v.h.f. and these schievements and otherwise are, of course three-schievements and otherwise are, of course, chron-icled cloveshere. 7BQ sharing 7 Mc these days with 7XW—I'm still waiting to hear Chris put a platter on 7 Mc and call CQ on 2010, no luck so far but while there's life there's hop—or

something. "The authorization at a state of the control of the con

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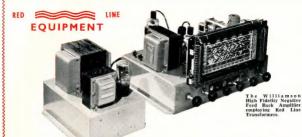
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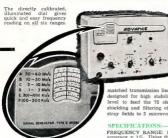
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